

*California Department of Transportation
Division of Maintenance*

Structure Maintenance and Investigations

B_{RIDGE}

I_{NSPECTION}

R_{ECORDS}

I_{NFORMATION}

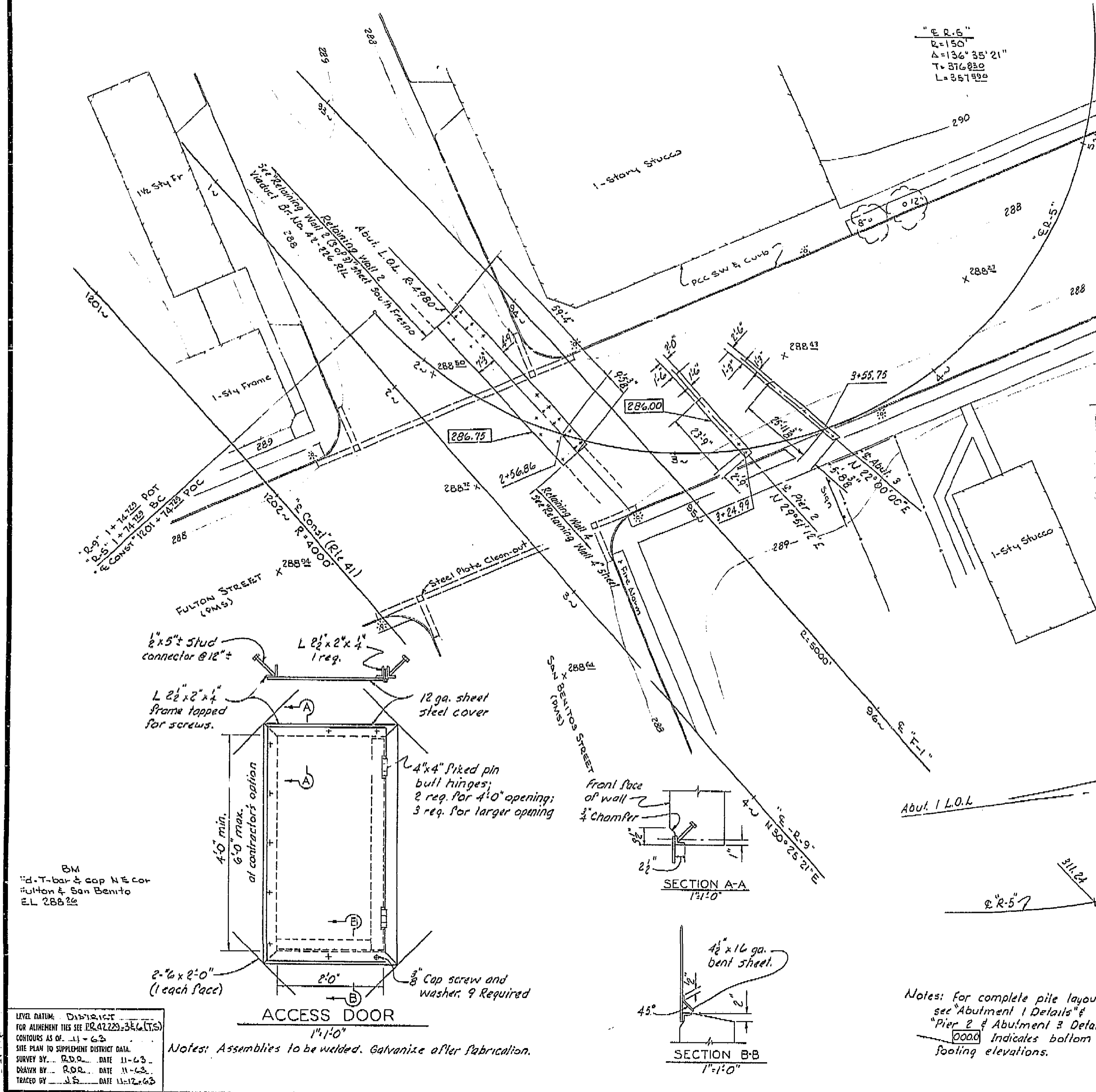
S_{YSTEM}

The requested documents have been generated by BIRIS.

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DATE APPROVED: October 5, 1964



AS BUILT PLANS
 Contract No. 14-014234
 Date Completed 5-16-66
 Document No. 40000018

GENERAL NOTES
 Design: A.A.S.H.O Dated 1961 with revisions and as supplemented by Bridge Planning and Design Manual.
 Live Loading: H20-516-44 and Alternative.
 Reinforced Concrete: $F_s = 20,000$ P.S.I., $N = 10$
 $F_c = 1,200$ P.S.I.

10' GRID OF DECK ELEVATIONS
 1"=10'

BRIDGE DEPARTMENT	
DESIGN SECTION	
Section Supervisor	R.E. Blake
DESIGN	By B. F. Foster 2-64
DETAILS	By C. E. Foster 4-64
QUANTITIES	By C. E. Foster 4-64
	By C. E. Foster 5-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
BROADWAY ON-RAMP OVERCROSSING	
FOUNDATION PLAN	
Except as Noted	BRIDGE 42-229 FILE F-42 DRAWING 42229-3

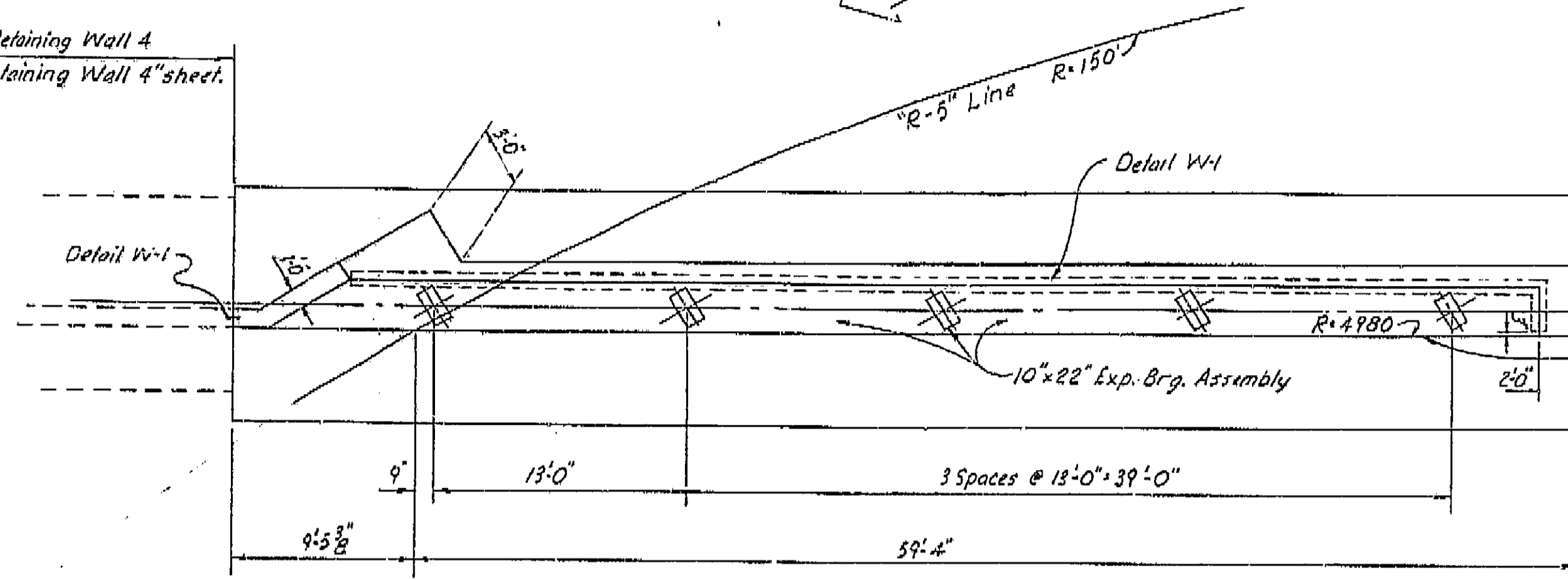
Notes: For complete pile layout see "Abutment 1 Details" & "Pier 2 & Abutment 3 Details" sheet.
 0000 Indicates bottom of footing elevations.

LEVEL DATUM: DMS 1955
 FOR ALIGNMENT THIS SEE 12.42229-3 (T-5)
 CONTOURS AS OF: 11-63
 SITE PLAN TO SUPPLEMENT DISTRICT DATA.
 SURVEY BY: R.D.D. DATE 11-63
 DRAWN BY: R.D.D. DATE 11-63
 TRACED BY: J.S. DATE 11-12-63

62-06 TIOH0142.4

SHEET 2 OF 8

Retaining Wall 4
See "Retaining Wall 4" sheet.

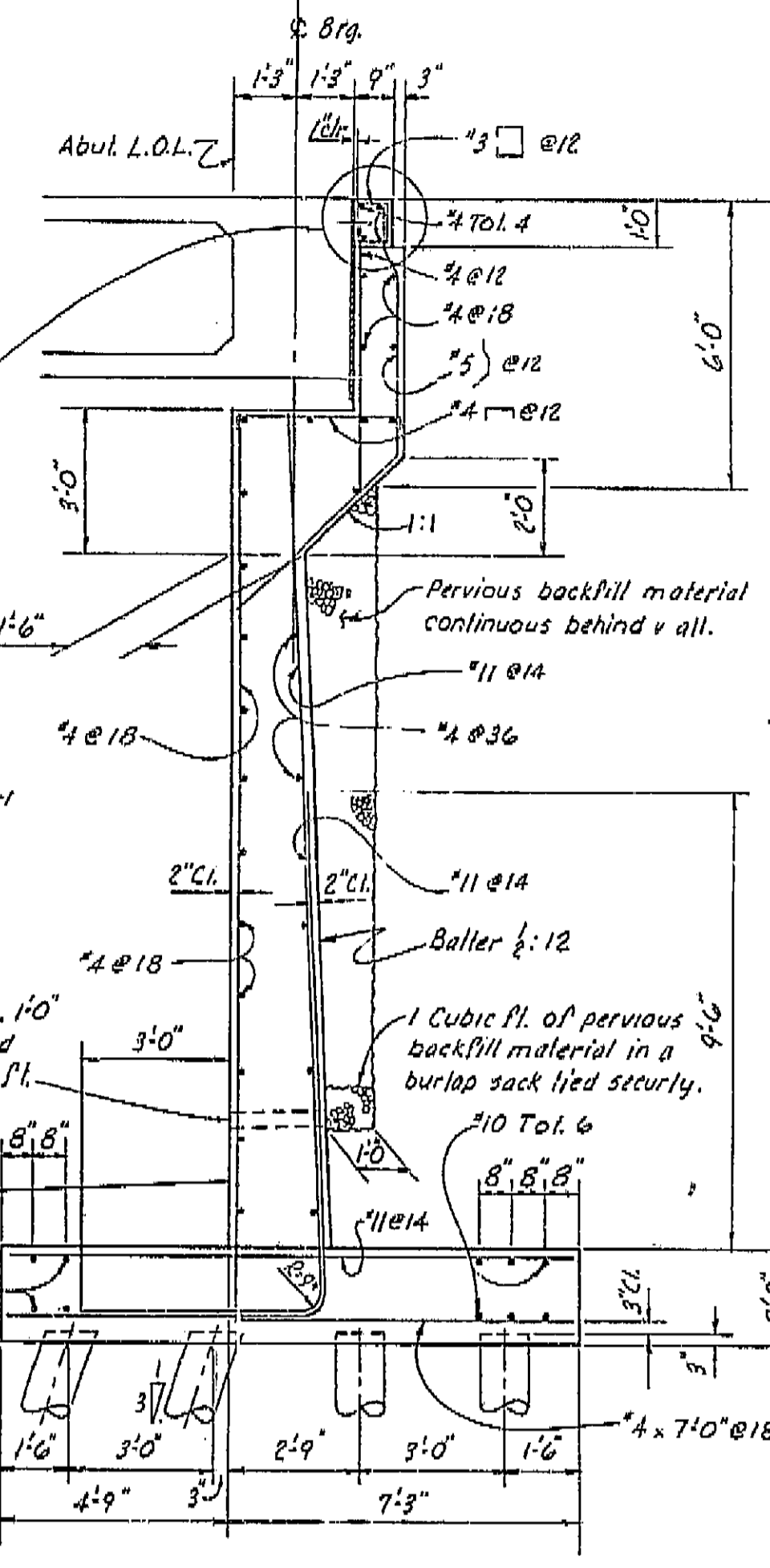
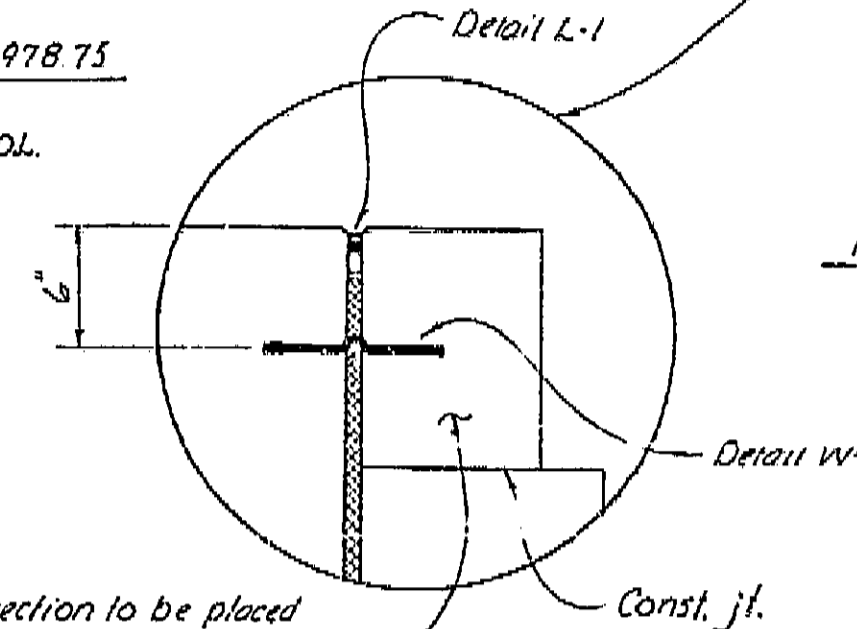


PLAN
1/2" x 1'-0"

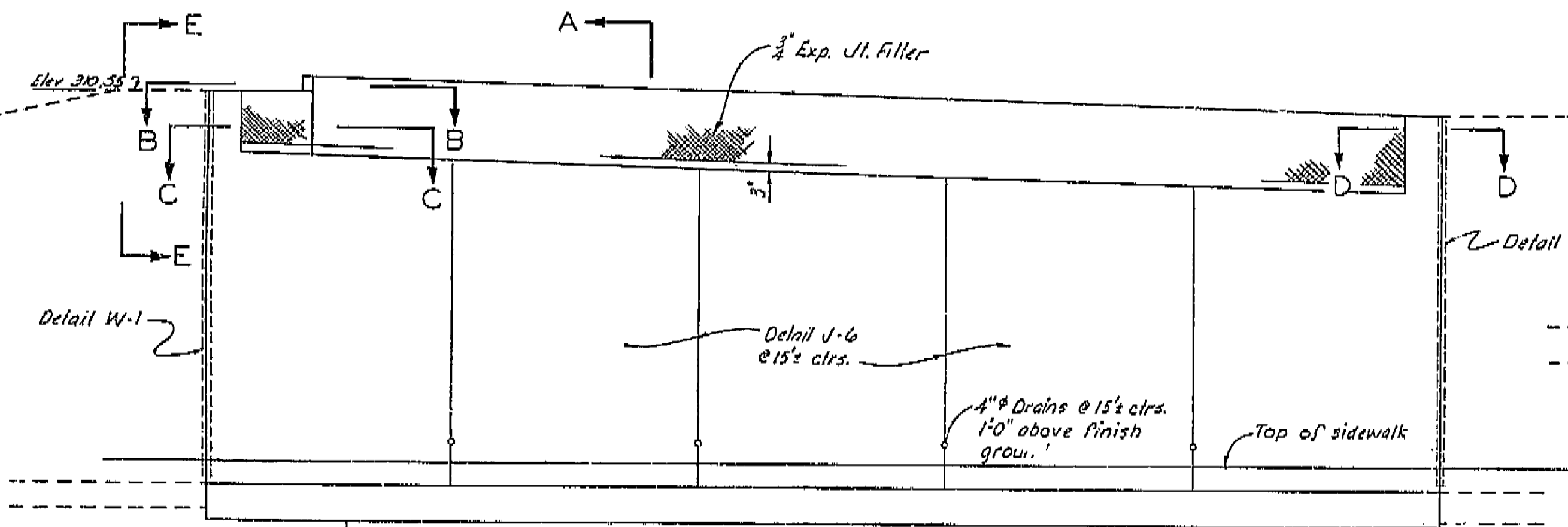
Retaining Wall 2
See "Retaining Wall 2 (3 of 3)" sheet, South
Fresno Viaduct Bridge No. 42-226 R/L

Detail W-1
Face of Abut. Abut. L.O.L.
R+4978.75

This section to be placed
after deck has been finished.

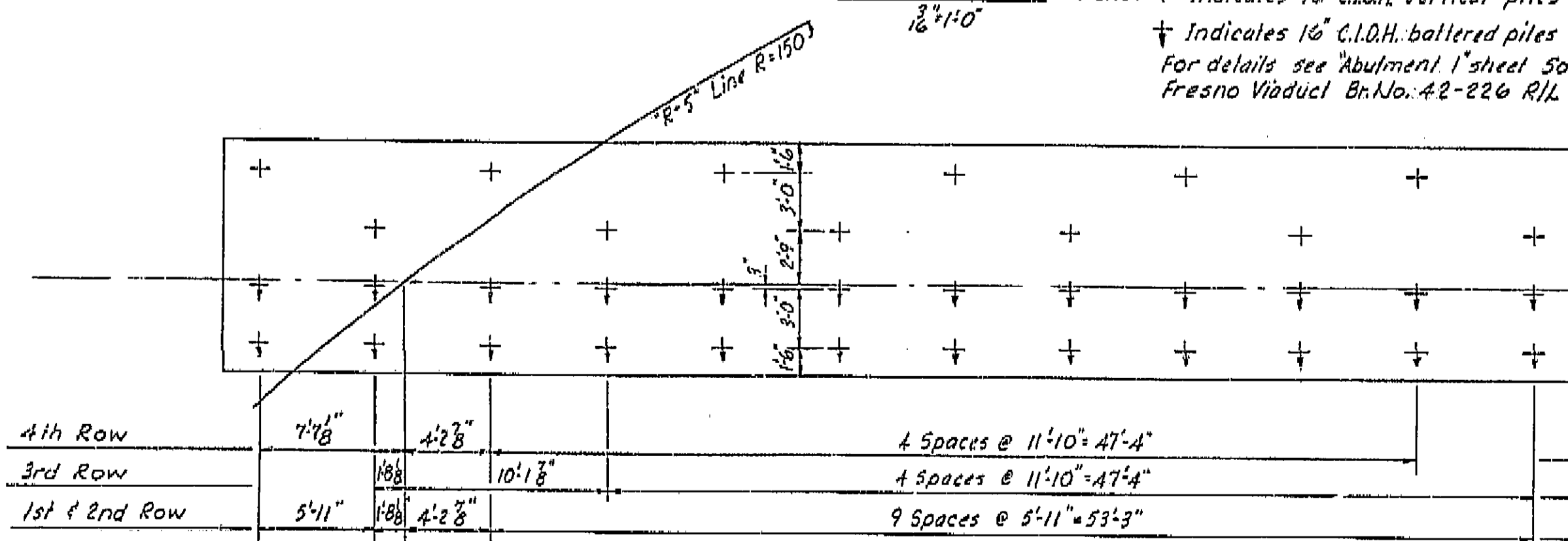


SECTION A-A
3/8" x 1'-0"



ELEVATION
3/8" x 1'-0"

Notes: + Indicates 16" C.I.O.H. vertical piles
+ Indicates 16" C.I.O.H. battered piles 1:3
For details see Abutment 1 sheet South
Fresno Viaduct Br. No. 42-226 R/L



PILE LAYOUT PLAN
1/2" x 1'-0"

SECTION B-B
3/8" x 1'-0"

SECTION C-C
3/8" x 1'-0"

SECTION D-D
3/8" x 1'-0"

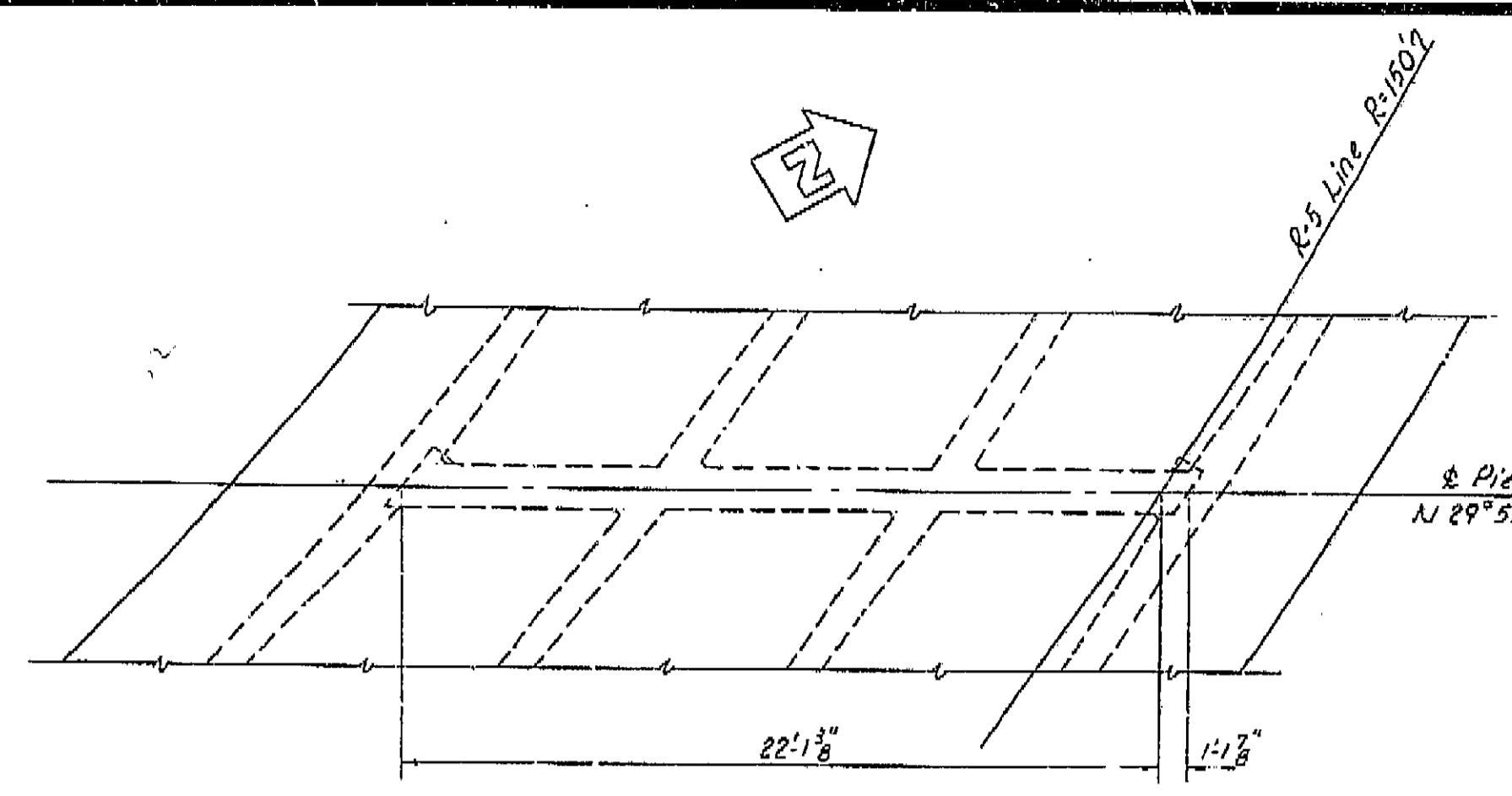
AS BUILT PLANS
Contract No. 44-014234
Date Completed 5-16-66
Document No. 60000018

THIS SET OF PLANS HAS BEEN CORRECTED TO
CORRESPOND TO THE "AS BUILT" PRINTING
DATE 5/19/66, AS SUBMITTED BY RESIDENT
ENGINEER, Niles.
REVISIONS CORRECTED BY: BS DATE: 7/12/66

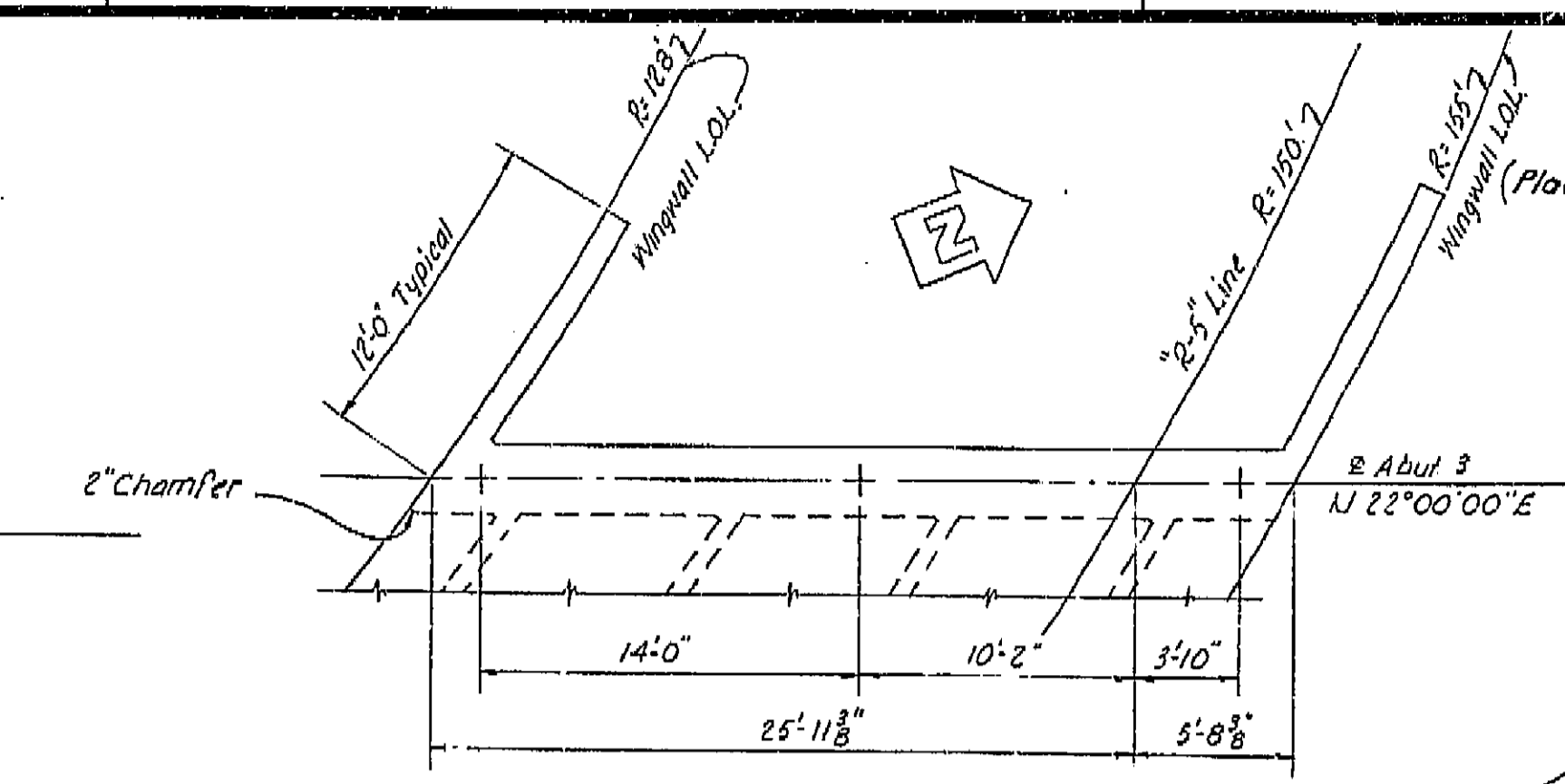
BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R.L. Blake
DESIGN	By B.L. Frazier 8-64
	Checked C. Zuercher 4-64
DETAILS	By Y. Nakayama 4-64
	Checked C. Han C. Han 4-64
QUANTITIES	By C.M. Wupper 5-64
	Checked C.M. Wupper 5-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
BROADWAY ON-RAMP OVERCROSSING			
ABUTMENT 1 DETAILS			
SCALE As Noted	BRIDGE 42-229	FILE	DRAWING 42229-4
PRELIMINARY DRAWING NO.		REVISION DATES	
P-34			

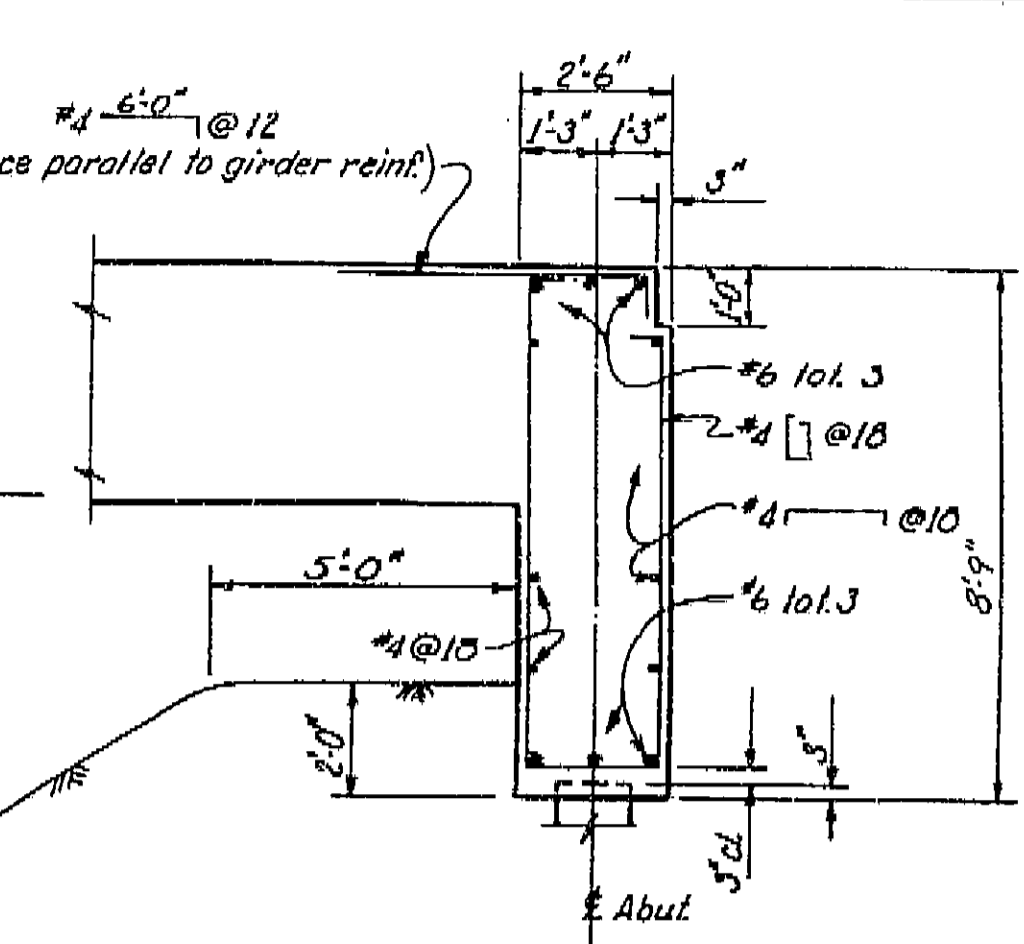
Disregard prints bearing earlier revision dates



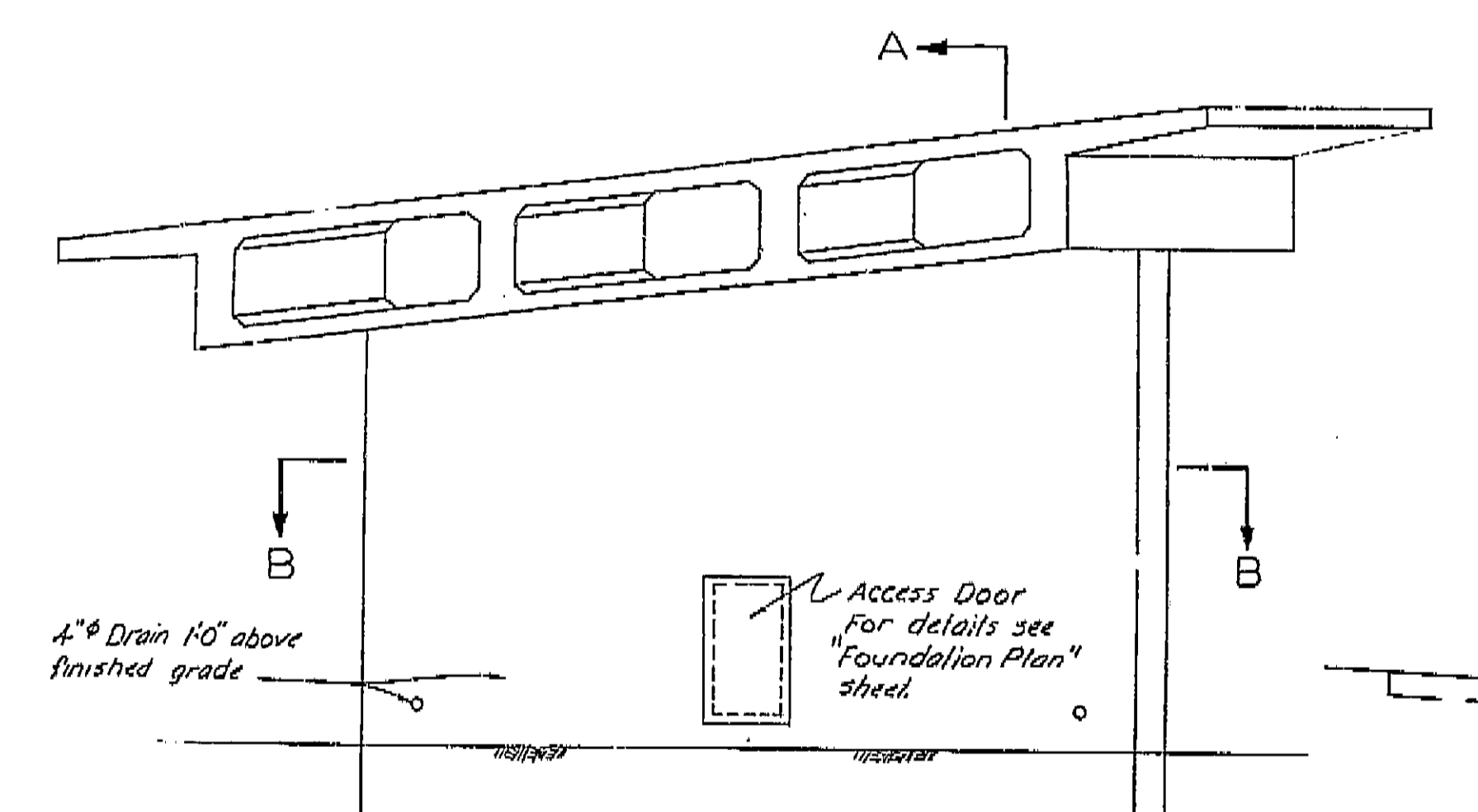
PLAN
1/4" = 1'-0"



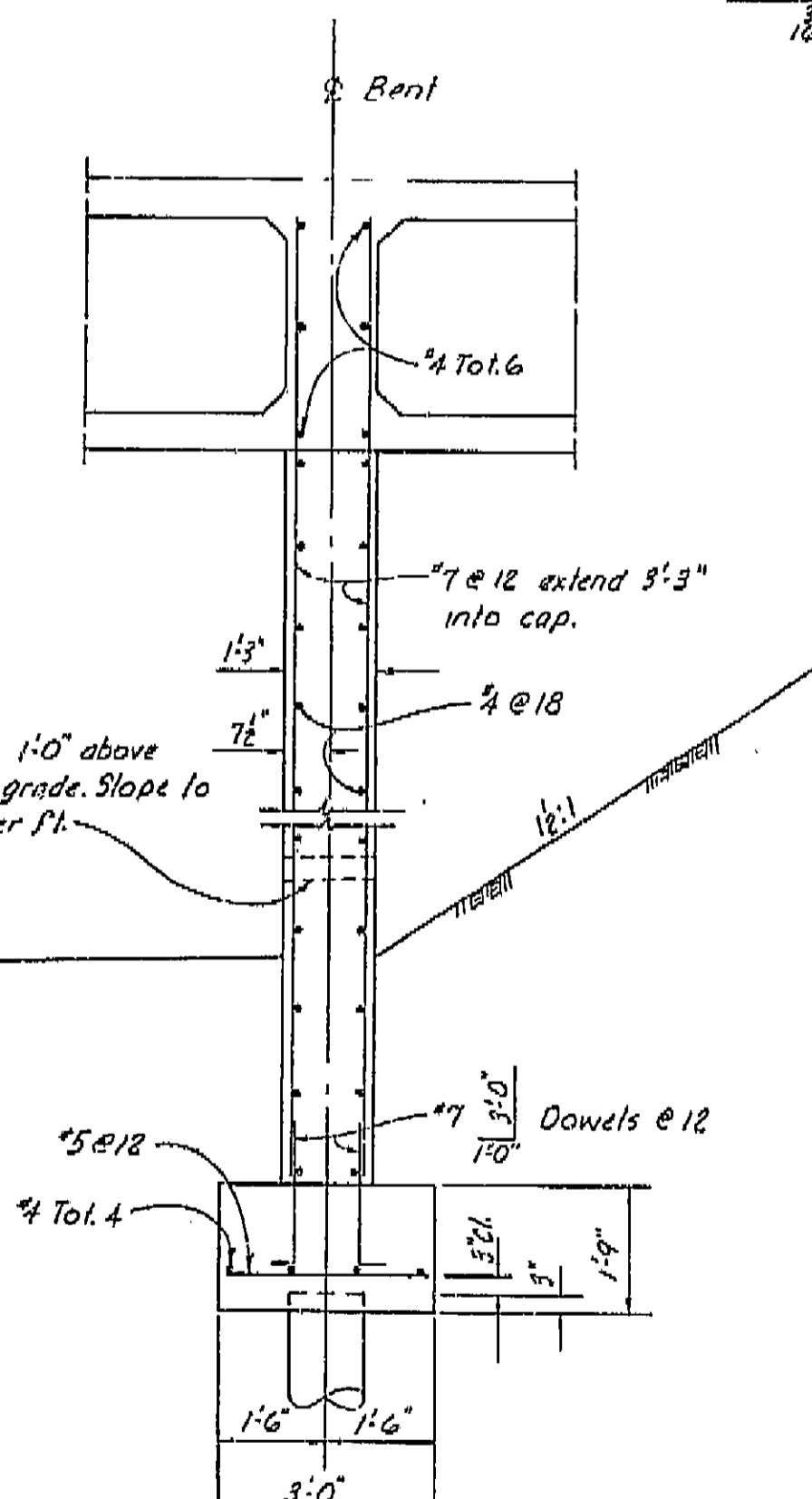
PLAN
1/4" = 1'-0"



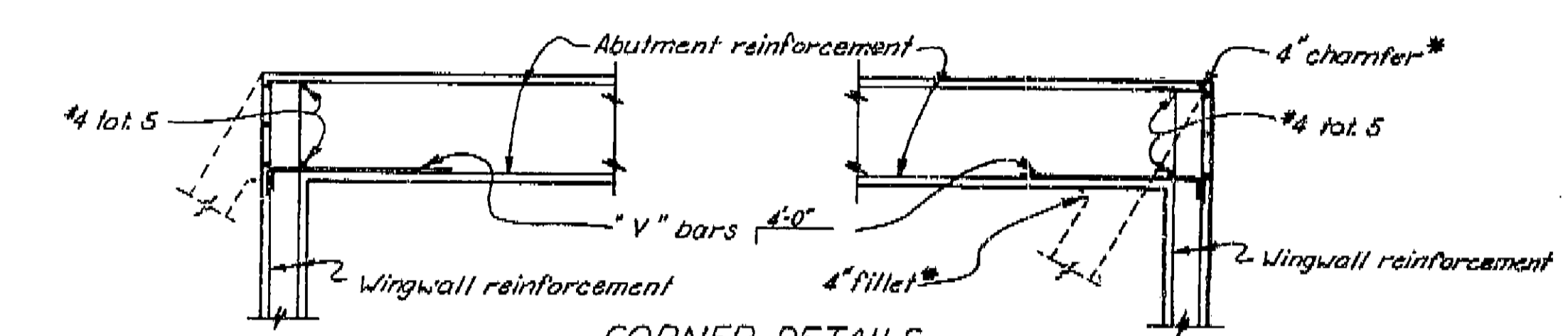
ABUTMENT SECTION



ELEVATION
1/4" = 1'-0"



SECTION A-A
1/2" = 1'-0"

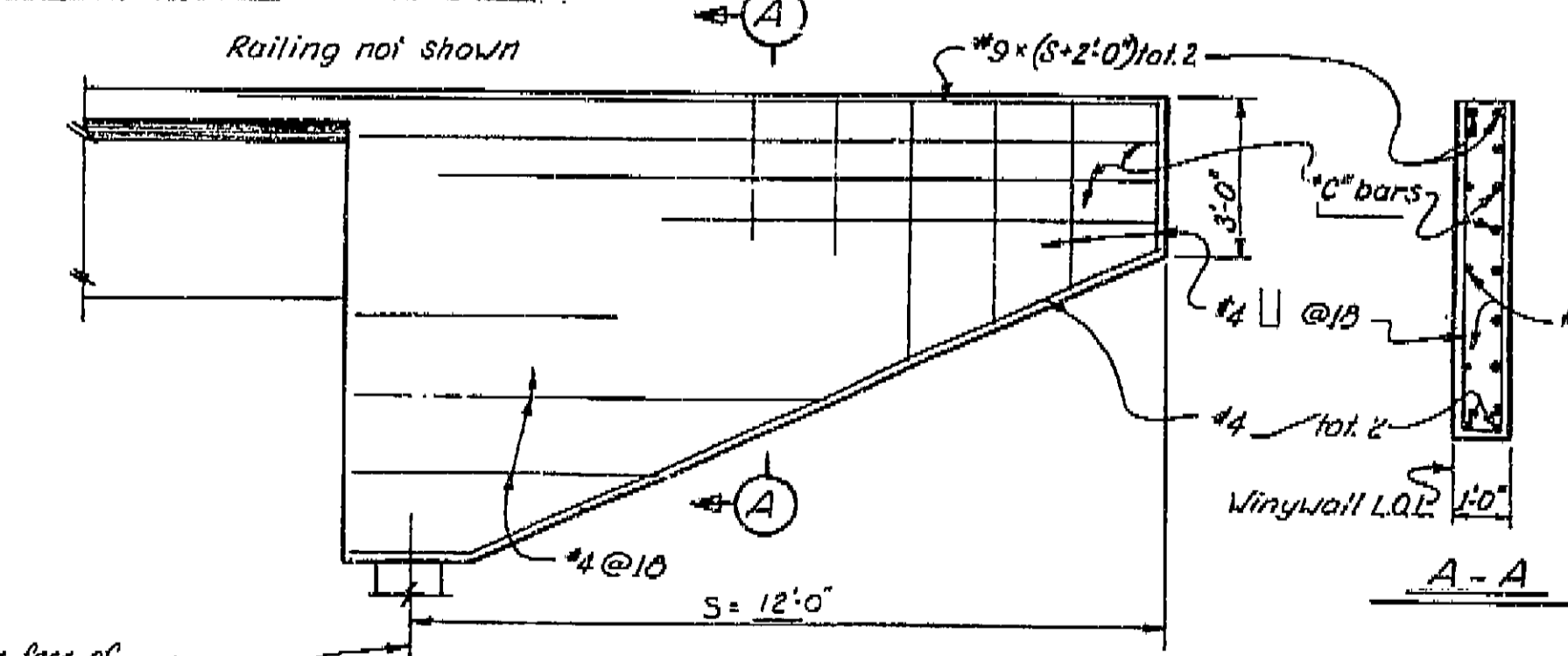


CORNER DETAILS

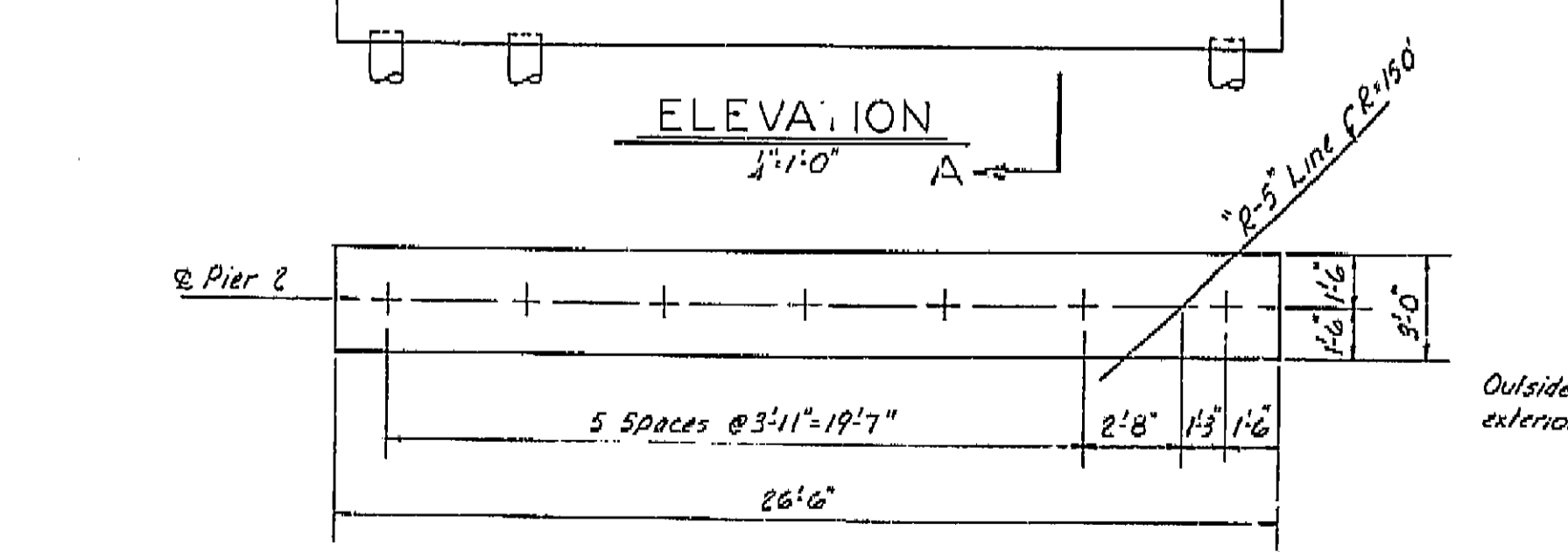
AS BUILT PLANS
Contract No. 42-229-5
Date Completed 5-16-66
Document No. 40000018

"S"	"C" BARS	"V" BARS
12'	#5 @ 9"	#4 @ 18"
14'	#6 @ 9"	#4 @ 18"
16'	#7 @ 9"	#4 @ 18"
18'	#8 @ 9"	#5 @ 18"
20'	#9 @ 9"	#6 @ 18"

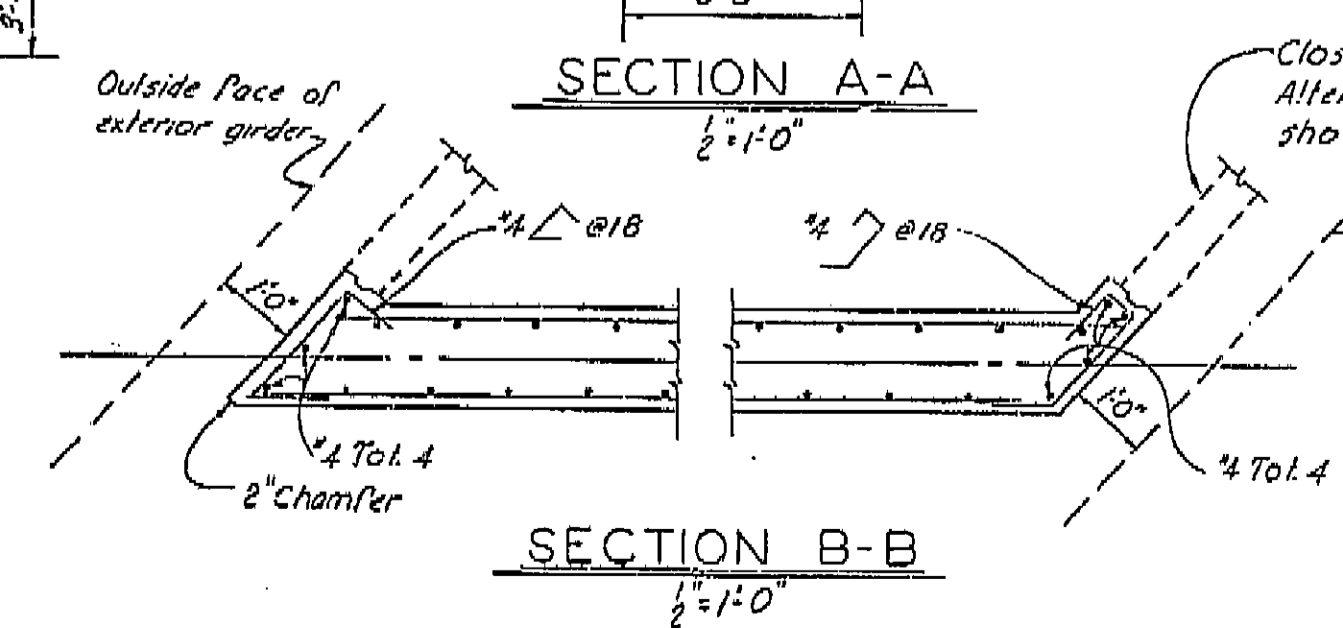
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER, 1/1/66. TRACINGS CORRECTED BY J.S. DATE: 2/2/66.



TYPICAL WINGWALL ELEVATION



FOOTING PLAN
1/4" = 1'-0"



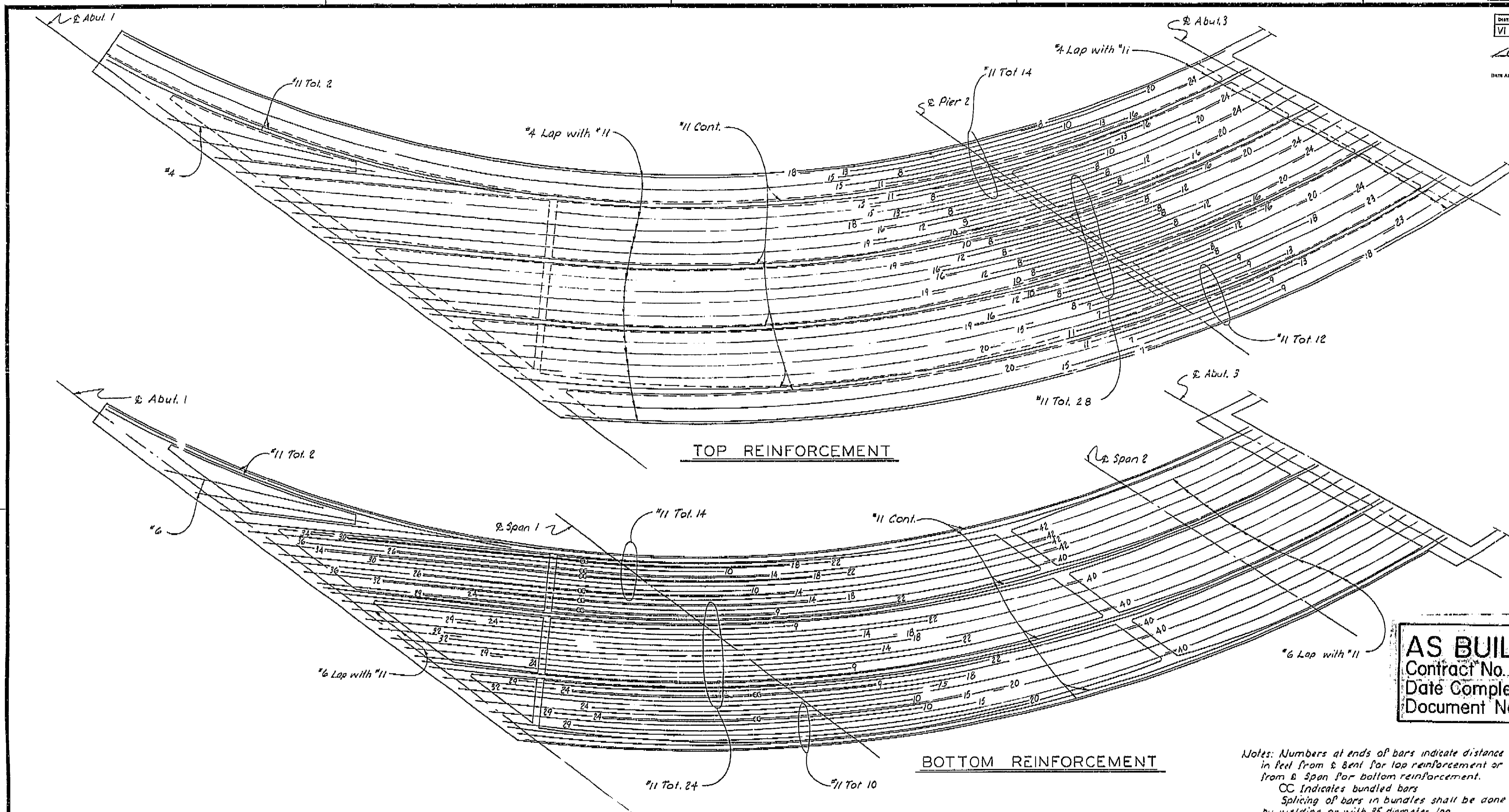
SECTION B-B
1/2" = 1'-0"

Notes: + Indicates 16" C.I.D.H vertical piles. For details see "Abutment 1" sheet South Fresno Viaduct Br. No. 42-226 R/L. For details of Closure Walls see "Closure Wall Details" sheet South Fresno Viaduct Br. No. 42-226 R/L.

BRIDGE DEPARTMENT		DESIGN SECTION 15
Section Supervisor	R.P. Baker	
DESIGN	by B.L. Fother 2-64	checked B. Baker 1-64
DETAILS	by Y. Nakamura 7-64	checked B. Baker 7-64
QUANTITIES	by B. Baker 5-64	checked B. Baker 5-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
BROADWAY ON RAMP OVERCROSSING			
PIER 2 & ABUTMENT 3 DETAILS			
no scale unless scale shown	BRIDGE 42-229	FILE	DRAWING 42-229-5
PRELIMINARY DRAWING NO. 42-229-5			

Disregard prints bearing earlier revision dates



AS BUILT PLANS
 Contract No. 14-014234
 Date Completed 5-16-66
 Document No. 60000018

Notes: Numbers at ends of bars indicate distance in feet from bent for lap reinforcement or from span for bottom reinforcement.
 CC indicates bundled bars
 Splicing of bars in bundles shall be done by welding or with 35 diameter lap.

THIS SET OF PLANS HAS BEEN EXAMINED AND FOUND TO BE CORRECT AND COMPLETE AS SUBMITTED BY THE ENGINEER AND AS CORRECTED BY THE ENGINEER ON 11/1/66

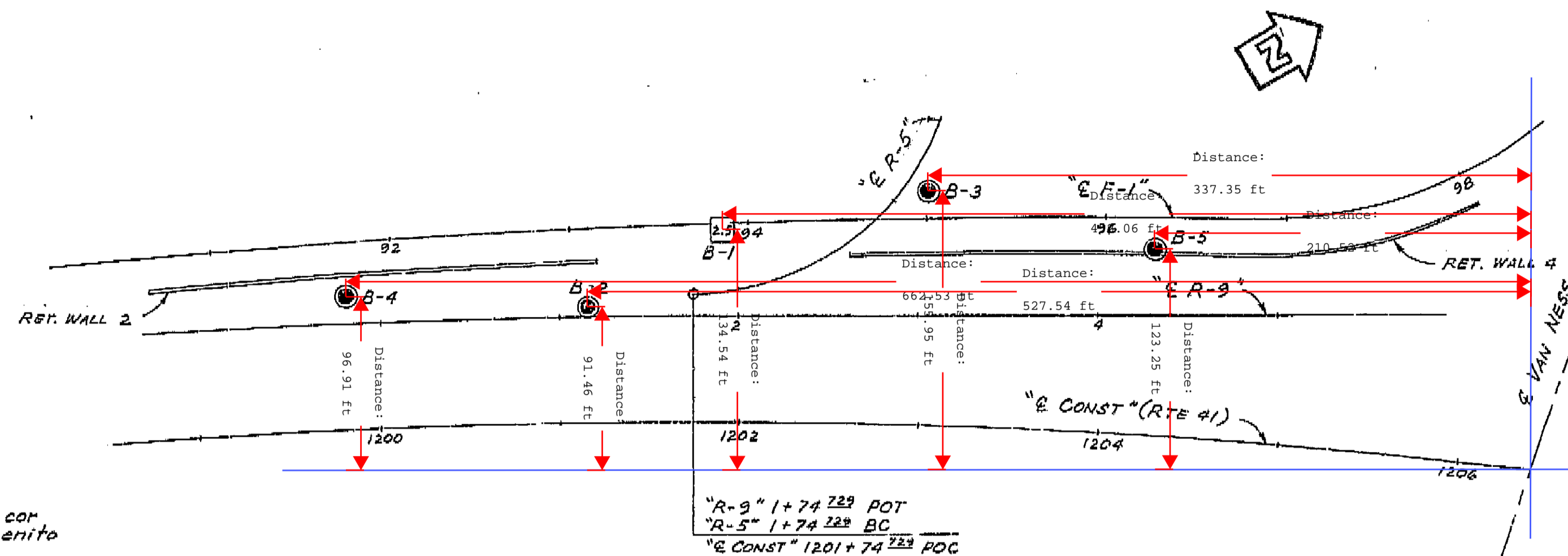
Girder	Reinforcement Details	Reinforcement Details
Girder A	@ 6 Max.	
Girder B	20#9, 22#6, 8#9, 4#12, 8#18 Max., 6#12, 14#9, 36#6	14#12, 2#18, @ 24 Max.
Girders C & D	13#9, 6#12, 2#18, @ 24 Max., 2#18, 8#12, 16#9, 16#6	11#12, 2#18, @ 24 Max.
Girder E	7#9, 20#6, 8#9, 4#12, @ 18 Max., 8#12, 12#9, 34#6	12#12, 2#18, @ 24 Max.

Single #5 girder stirrup spacing except where shown double

BRIDGE DEPARTMENT		DESIGN SECTION 15
Section Supervisor: R. E. Blake		
DESIGN	By: B. J. FEAVER 2-64	
DETAILS	Checked: C. J. H. 1-64	
	By: Y. Nakayama 1-64	
	Checked: C. J. H. 1-64	
QUANTITIES	By: C. J. H. 5-64	
	Checked: C. J. H. 5-64	

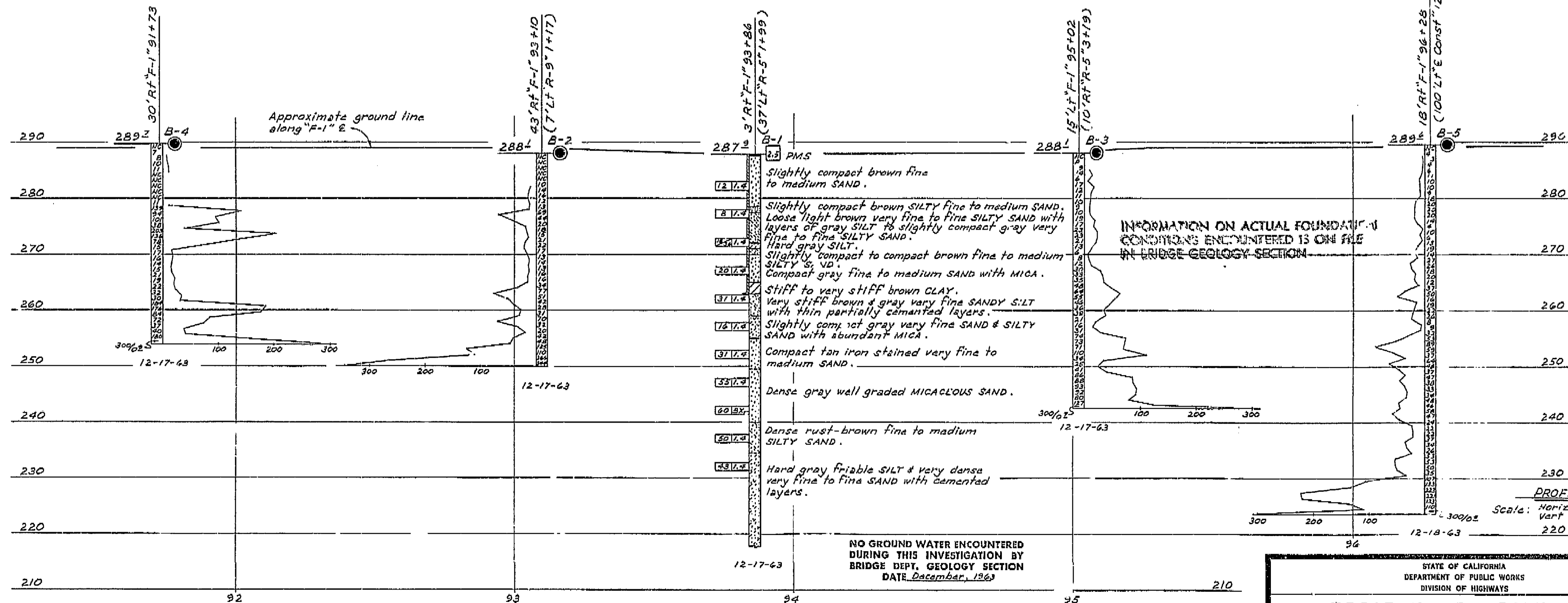
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
BROADWAY ON-RAMP OVERCROSSING			
GIRDER REINFORCEMENT			
Scale None	Bridge 42-229	File	Drawing 42229-7

160



AS BUILT PLANS
Contract No. 14-014234
Date Completed 5-16-66
Document No. 60000019

PLAN
Scale: 1"=50'



NO GROUND WATER ENCOUNTERED
DURING THIS INVESTIGATION BY
BRIDGE DEPT. GEOLOGY SECTION
DATE December, 1963

PROFILE

Scale: Horiz 1" = 20'
Vert 1" = 10'

BROADWAY ON-RAMP OC
& RETAINING WALLS 2 & 4

LOG OF TEST BORINGS

SCALE <i>As Noted</i>	BRIDGE 42-229	FILE	DRAWING 42229-8
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Disregard prints bearing earlier numbers

[illegible]

FIELD STUDY	BY J. PAUL 12-63
DRAWN	BY K. ENDOW 1-8-64
CHECKED	BY M. HEARNSTON 1-14-64

Approved & Recommended by *[Signature]*
 Approved & Forwarded

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

LEGEND OF EARTH MATERIALS	
	GRAVEL
	SILT
	CLAY
	SANDY CLAY OR CLAYEY SAND
	SILTY CLAY OR CLAYEY SILT
	SAND
	SILTY SAND
	PEAT AND/OR ORGANIC MATTER
	FILL MATERIAL
	IGNEOUS ROCK
	SEDIMENTARY ROCK
	METAMORPHIC ROCK

[illegible]

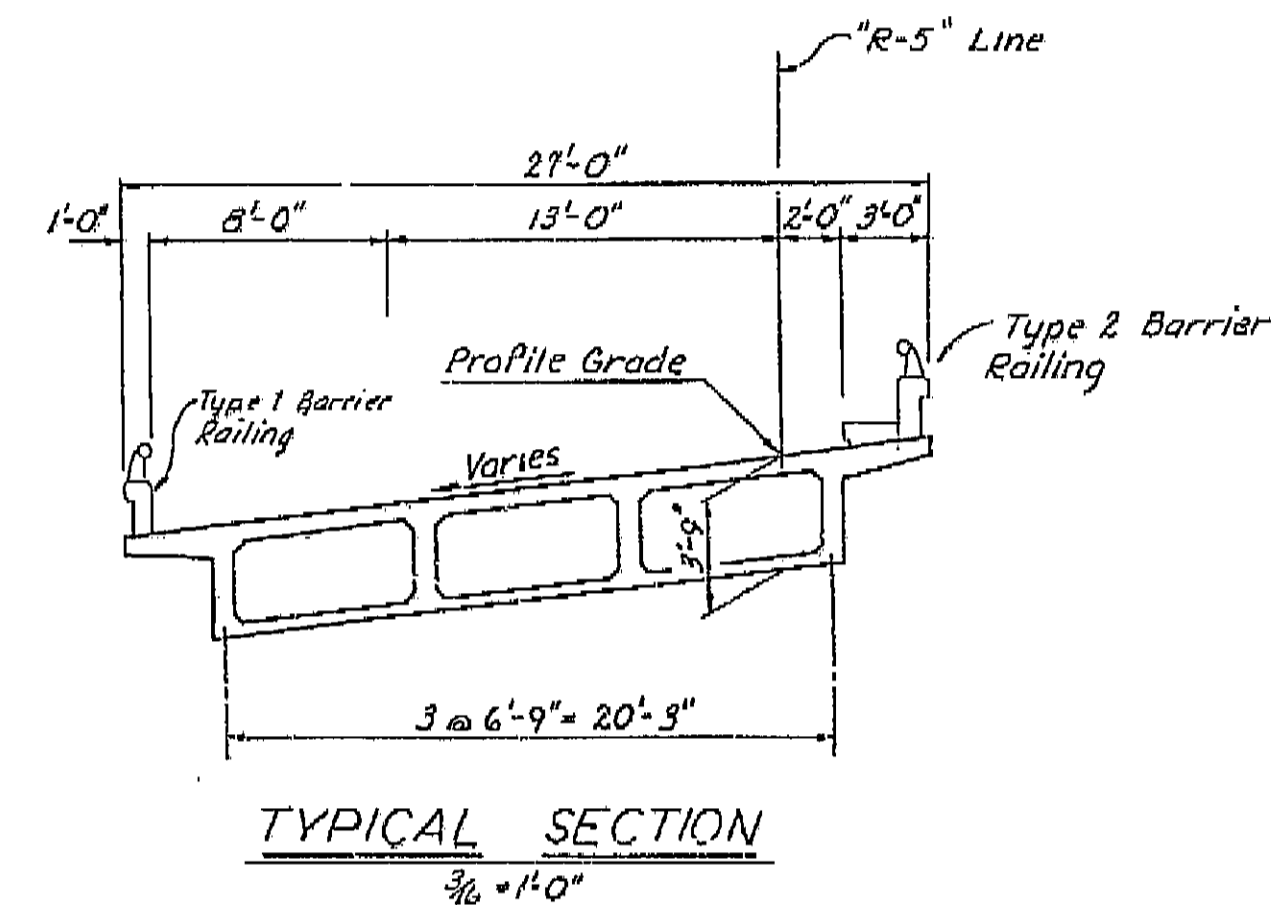
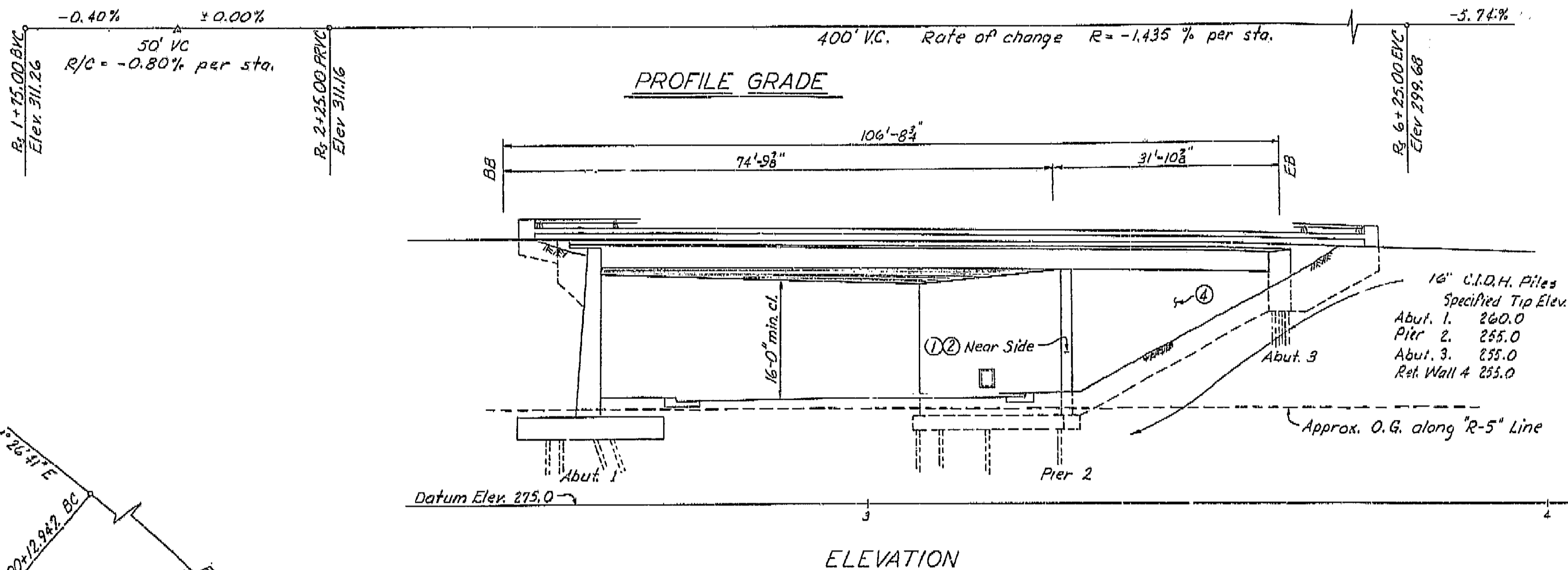
NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

U-034-2(2)

FED. ROAD DIST. NO.	STATE	P.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		154	161

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	42	154	154	161

DATE APPROVED: October 5, 1964



INDEX TO PLANS

Sheet No	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment 1 Details
4.	Pier 2 & Abutment 3 Details
5.	Retaining Wall 4
6.	Typical Section & Girder Layout
7.	Girder Reinforcement
8.	Log of Test Borings

See South Fresno Viaduct Br. No. 42-226 R/L for:
Box Girder Details No. 1
Standard Details No. 2 (Box Girder)
Barrier Railing Sheet 1
Barrier Railing Sheet 2
16" C.I.D.H. Pile Details
Closure Wall Details

For Approximate Quantities see sheet 5

- NOTE:
- Numbers indicate location for:
- ① Pointing Br. No. 42-229 and year constructed.
 - ② Pointing Broadway On-Ramp O.C.
 - ③ Minimum vertical clearance
 - ④ Closure Wall Detail

AS BUILT PLANS

Contract No. 11-014234

Date Completed 5-16-66

Document No. 40000019

PLAN

FOR GENERAL NOTES SEE FOUNDATION PLAN

LIVE LOADING H20-S16-A4 AND ALTERNATIVE

BRIDGE DEPARTMENT			
DESIGN SECTION 15			
Section Supervisor: Bruce St. James			
Project Dr: Bruce St. James			
DESIGN	BY B.L. Frazier 1-66	Checked: J. H. H. 1-66	Drawn: J. H. H. 1-66
DETAILS	BY MIZUTANI 1-64	Checked: J. H. H. 1-64	Drawn: J. H. H. 1-64
LAYOUT	BY B.L. Frazier 1-66	Checked: J. H. H. 1-66	Drawn: J. H. H. 1-66
QUANTITIES	BY B.L. Frazier 1-66	Checked: J. H. H. 1-66	Drawn: J. H. H. 1-66
SPECIFICATIONS	BY B.L. Frazier 1-66	Checked: J. H. H. 1-66	Drawn: J. H. H. 1-66
Approval Recommended by: J. H. H. 1-66			

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai.

TRACINGS CORRECTED BY: J.E. DREYER 7/1/66

SHEET	OF
1	8

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON-RAMP OVERCROSSING

LOCATED IN THE CITY OF FRESNO ON ROAD VI-FRE-414-F-4
IN FRESNO COUNTY

GENERAL PLAN

Except as noted SCALE 1" = 10'

BRIDGE 42-229 FILE DRAWING 42229-1

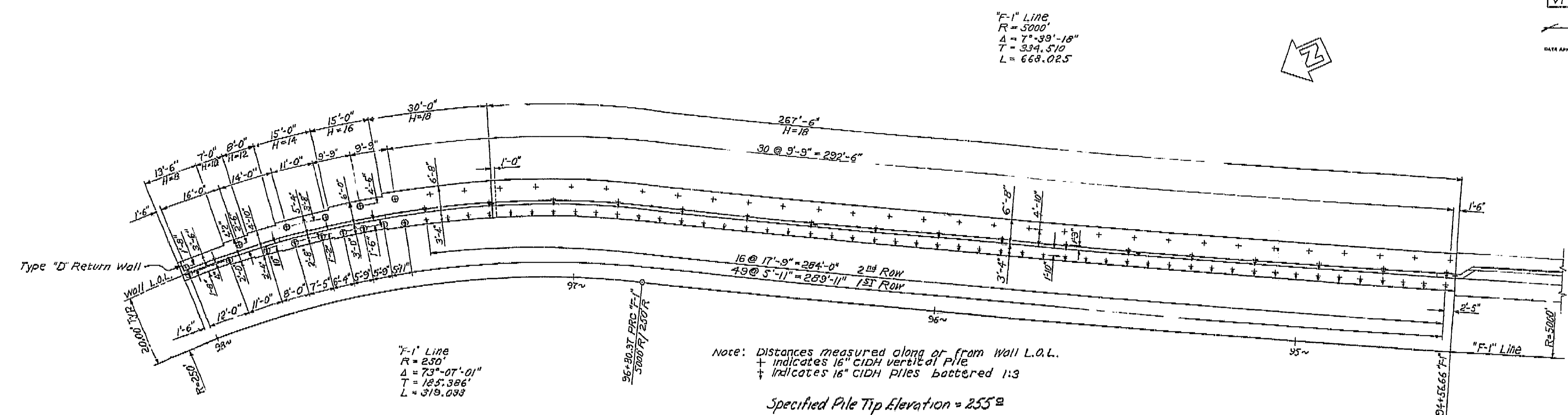
PRELIMINARY DRAWING NO. 154

06-202

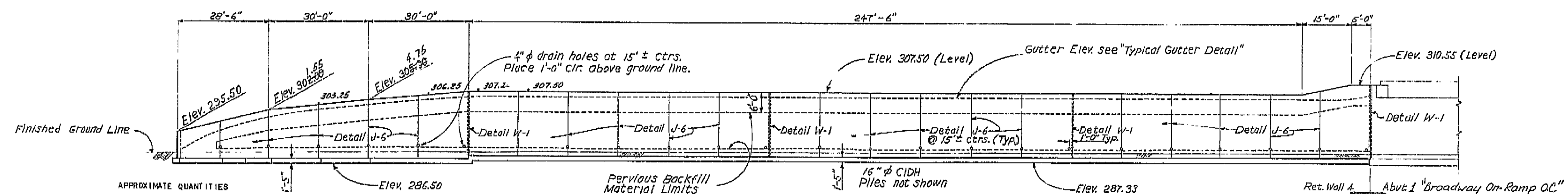
014231

62-06T10H01424

Discard plans bearing earlier revision dates



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS. AS SUBMITTED BY RESIDENT ENGINEER, T. Wagon. TRACINGS CORRECTED BY: [Signature] DATE: 7/2/66



APPROXIMATE QUANTITIES

	BRIDGE	WALL #4
*STRUCTURE EXCAVATION (BR)	115 CY	220 CY
*STRUCTURE BACKFILL (BR)	325 CY	1,360 CY
*PERVIOUS BACKFILL MATERIAL	43 CY	125 CY
16" CIDH CONCRETE PILING	1,360 LF	3,730 LF
*CLASS A CONCRETE (BR)	390 CY	500 CY
CLASS B CONCRETE CLOSURE WALLS	658 SF	14 CY
WATERSTOPS	72 LF	75 LF
JOINT SEALER	68 LF	
*BAR REINFORCING STEEL (BR)	88,000 LB	66,000 LB
MISC METAL (BR)	2,200 LB	
BARRIER RAILING (TYPE 1)	134 LF	
BARRIER RAILING (TYPE 2)	120 LF	

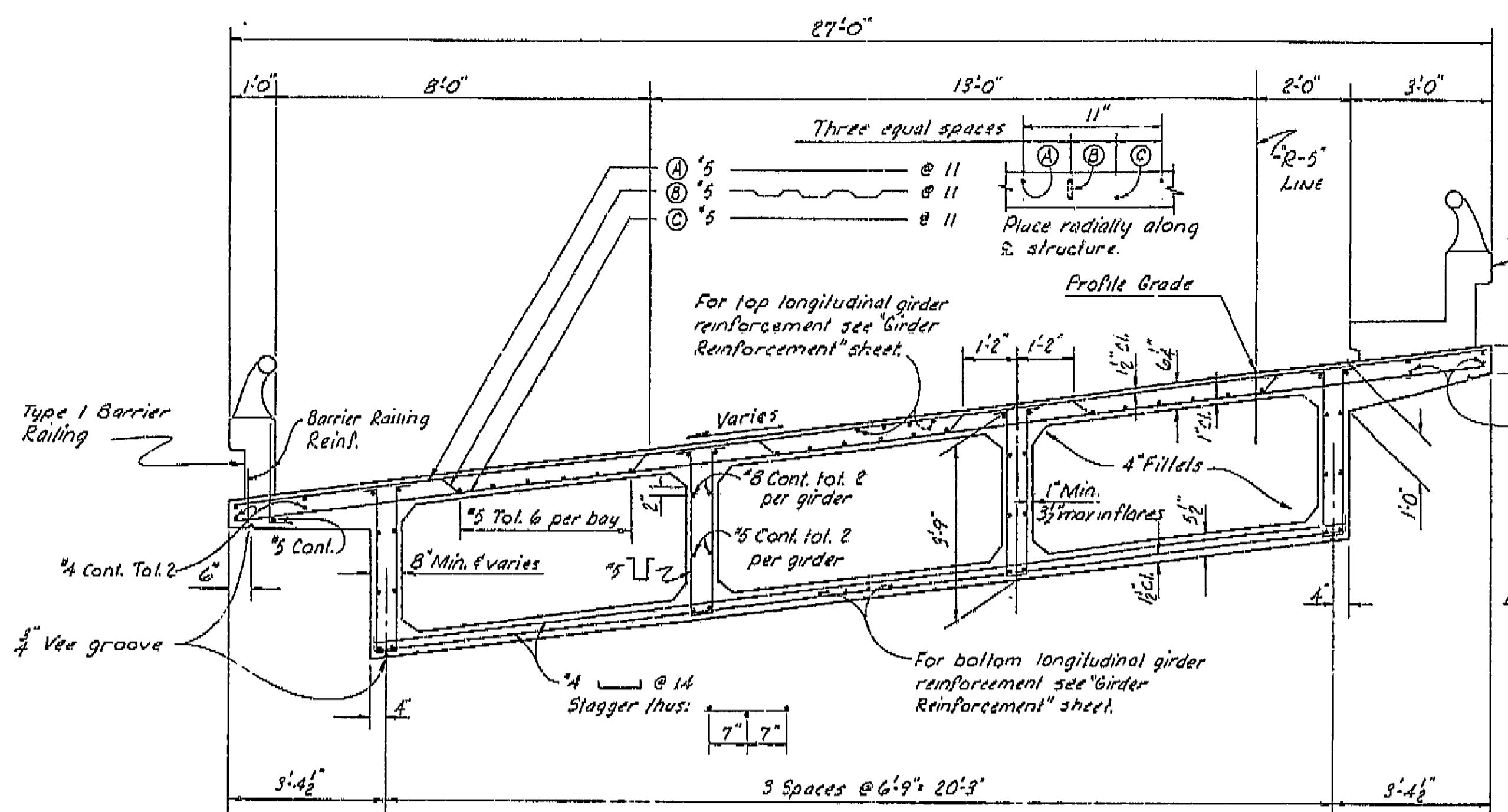
*FINAL QUANTITIES

AS BUILT PLANS
 Contract No. 14-014234
 Date Completed 5-16-66
 Document No. 400000018

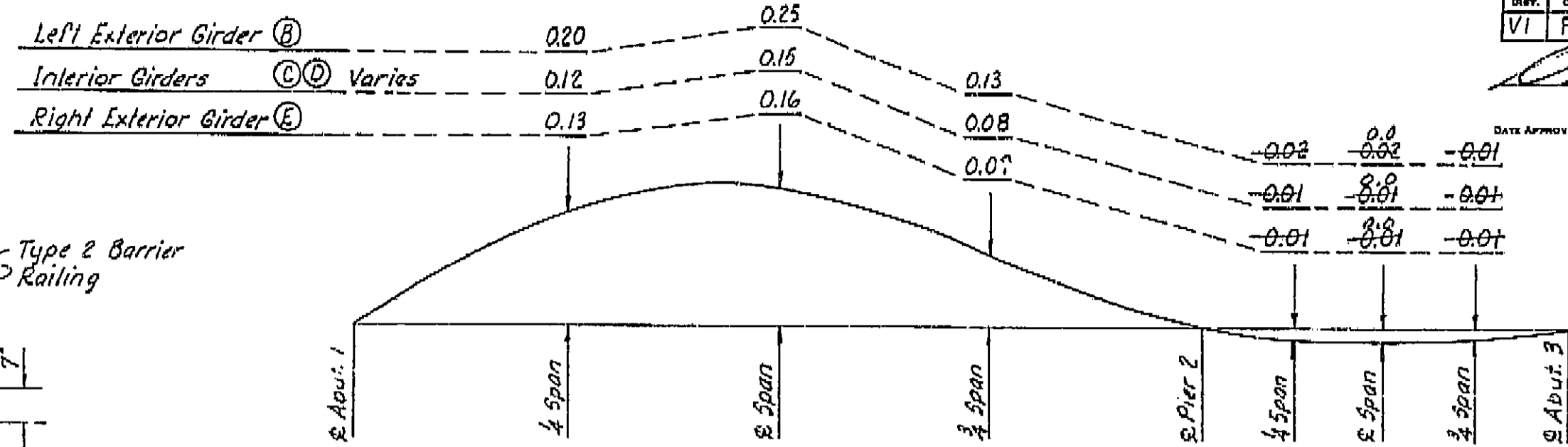
Note: See South Fresno Viaduct, Br. No. 42-226 R/L for: "Type 1 Retaining Wall" (H=4'-30") "Retaining Wall Details, No. 1" "16" CIDH Pile Details"

BRIDGE DEPARTMENT DESIGN SECTION 15		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor: <i>R. B. Blake</i>		BROADWAY ON-RAMP OVERCROSSING	
DESIGN: <i>R. B. Blake 2/64</i> Checked: <i>W. A. Banks 2/64</i>		RETAINING WALL 4	
DETAILS: <i>R. B. Blake 2/64</i> Checked: <i>W. A. Banks 2/64</i>		SCALE 1"=15'	
QUANTITIES: <i>Ed. Hupke 5-64</i> Checked: <i>W. A. Banks 5-64</i>		BRIDGE 42-229 FILE DRAWING 42229-2	
PRELIMINARY DRAWING No. <i>P-344</i>		REVISION DATES	

158



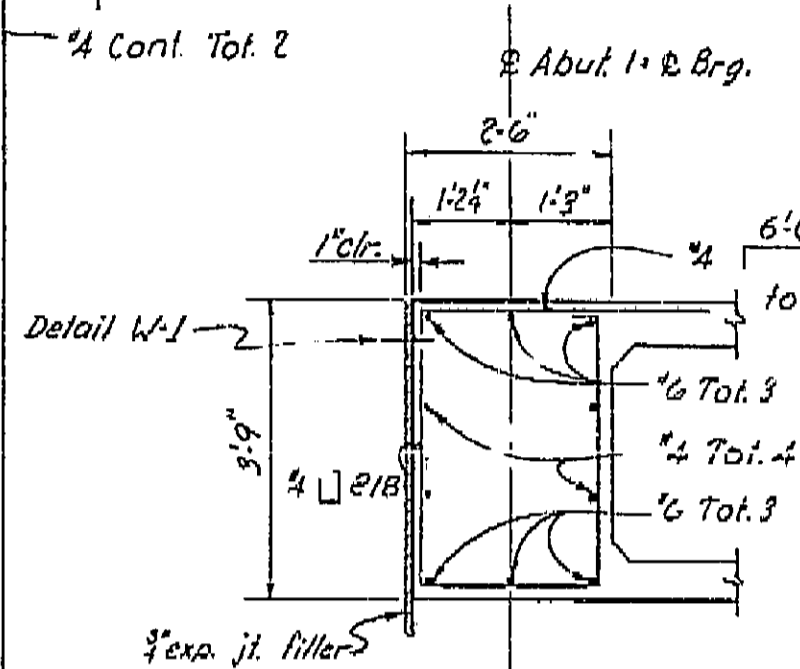
TYPICAL SECTION
1/2"=1'-0"



CAMBER DIAGRAM

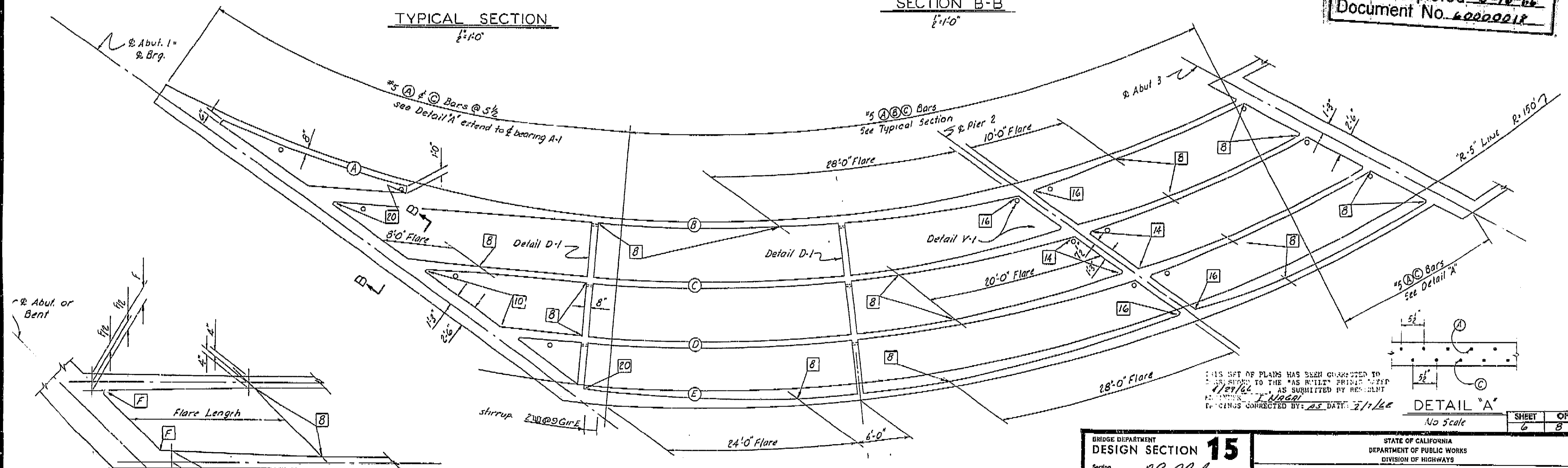
No Scale
Total girder deflection due to dead loads

NOTE: THE TOTAL DEFLECTION WILL BE REACHED ABOUT FOUR YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL, DIVIDE THOSE SHOWN BY 4. THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.



SECTION B-B
1/2"=1'-0"

AS BUILT PLANS
Contract No. 14-014234
Date Completed 5-16-66
Document No. 40000018



GIRDER LAYOUT
1/2"=1'-0"

FLARE DIAGRAM
No Scale

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	RL Blake
DESIGN	By BL Fraser 3-64
	Checked C. J. H. 4-64
DETAILS	By Y. Nakayama 4-64
	Checked C. J. H. 4-64
QUANTITIES	By C. J. H. 5-64
	Checked C. J. H. 5-64

STATE OF CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
DIVISION OF HIGHWAYS			
BROADWAY ON-RAMP OVERCROSSING			
TYPICAL SECTION & GIRDER LAYOUT			
SCALE As Noted	BRIDGE 42-229	FILE	DRAWING 42229-4
PRELIMINARY DRAWING No.		REVISION DATES	
P. 36			

Discard prints bearing earlier revision dates